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Changes from Previous Version

Changes from the previous version of this document are shown by **highlighting**, with deleted text shown by **strikethrough**.

Status Key

<i>Awaiting comments</i>	There is a minimum 1-week comment period following publication in this document.
<i>Ready for inclusion</i>	The comment period has ended; this is an uncontroversial item that will be included in a draft specification without a poll unless there are adverse comments.
<i>Awaiting sponsors</i>	For a proposal needing a poll, at least two members of the ADIF Voting group must support it beforehand.
<i>Ready for poll</i>	The comment period has ended; a poll can now be initiated.
<i>Poll: Approved</i>	There was a majority of votes for inclusion of the item, which will be included a draft specification
<i>Poll: Rejected</i>	There was not a majority of votes for inclusion of the item, which will be taken no further.
<i>Work in progress</i>	Further work is needed before the item can be considered for inclusion in a draft specification.
<i>Closed</i>	No further action.
<i>Included in a.b.c</i>	Included in proposed specification version <i>a.b.c</i>

Awaiting sponsors

None

Summary of Proposals

Title	Target Version	Will have Poll	Poll Result
Item 167: Add dates to the DXCC Entity Code enumeration			
Item 166: Minor changes and corrections #10			
Item 165: Enhance representation of calls in SWL reports		Yes	
Item 164: Add support for Lighthouses on the Air			
Item 163: Update ARRL Section Enumeration	3.1.5		
Item 162: Add a MY_DARC_DOK field	3.1.5	Yes	Approved
Item 161: Add HELL submodes implemented by fldigi	3.1.5		
Item 160: Add support for New Zealand Regions award	3.1.5	Yes	Approved
Item 159: QSLMSG-related clarifications	3.1.5		
Item 158: Add QSO Field QSLMSG_RCVD	3.1.5	Yes	Approved
Item 157: Add QSO fields to support the DARC DCL online service	3.1.5	Yes	Approved
Item 155: Kosovo Region / Country	3.1.5		
Item 156: Revise POTA data types and field definitions			
Item 153: Review naming of Application-defined fields	3.1.5		
Item 152: Extend (MY_)VUCC_GRIDS to 6-character locators	3.1.5		
Item 151: Add QSO fields to represent a Morse code key	3.1.5	Yes	Approved
Item 150: Minor changes and corrections #9	3.1.5		
Item 149: Add primary administrative subdivisions for DXCCs 324, 11, 142 & 70	3.1.5		
Item 148: Correct the Region enumeration's African Italy entry	3.1.5		
Item 147: Updates to Contest IDs	3.1.5		
Item 146: Provide read-only announcements of new proposed & released ADIF Specifications			
Item 145: Provide an optional register of PROGRAMID values			
Item 144: Add download date/status fields for QRZ.com	3.1.5	Yes	Approved
Item 143: Add fields for Castles on the Air		Yes	
Item 135: Review the ADIF specification w.r.t. importing unexpected data			
Item 129: Mode/Submode support for GMSK, FSK and FSK-W		Yes	
Item 114: Register ADIF media (aka MIME) types			
Item 112: Minor changes and corrections #5			
Item 107: Add Support for Extended Character Sets	3.1.6	Yes	
Item 088: Minor Changes and Corrections #3			
Item 087: Correct HFSK submode			
Item 085: Add Primary Administrative Subdivision for Norway	3.1.5		

Item 083: Remove Digit, Character, and IntlCharacter from Data Types table			
Item 081: Replace “Y” in Deleted columns with “Deleted”			
Item 080: Clarifications on the fields BAND, BAND_RX, FREQ, & FREQ_RX		Yes	
Item 071: Make ADIF test files available	3.1.5		
Item 070.1: Make files exported from the ADIF Specification available	3.1.5		
Item 070.2: Provide examples of using ADIF Specification exported files			
Item 065: Add a list of US Counties			
Item 062.2: Update Primary Administrative Subdivision for Country Code 224 (Finland)			
Item 058: Remove FIPS 6-4 US County Link		Yes	

Item 167: Add dates to the DXCC Entity Code enumeration

Status: Work in progress

Add Start Date and End Date columns to the DXCC Entity Code enumeration.

Sponsors: not applicable

Ref. <https://groups.io/g/adifdev/message/9845>

Item 166: Minor changes and corrections #10

Status: Work in progress

For consistency with the other “strongly typed” field data types, replace the “String” data type for the fields ADIF_VER and CREATED_TIMESTAMP fields with specific data types. Note: this does not affect ADIF file content.

- AdifVersion, the version of ADIF used in this file in the format X.Y.Z where
X is an integer designating the ADIF epoch
Y is an integer between 0 and 9 designating the major version
Z is an integer between 0 and 9 designating the minor version
- Timestamp, a UTC date and time in the format of 15 characters YYYYMMDD HHMMSS where
YYMMDD is a Date data type and HHMMSS is a Time data type

Remove links to CQ Amateur Radio (?)

Sponsors: not applicable

Ref.

Item 165: Enhance representation of calls in SWL reports

Status: Work in progress

Sponsors:

Ref. <https://groups.io/g/adifdev/message/9786>

Item 164: Add support for Lighthouses on the Air

Status: *Work in progress*

Sponsors:

Ref. <https://groups.io/g/adifdev/message/9781>

Item 163: Update ARRL Section Enumeration

Status: *Ready for inclusion*

Add new sections:

Abbreviation / Section Name / DXCC Entity Code / From Date / Deleted Date

GH / Golden Horseshoe / 1 / 2023/01/01 / /

NB / New Brunswick / 1 / 2023/01/01 / /

NS / Nova Scotia / 1 / 2023/01/01 / /

TER / Territories / 1 / 2023/01/01 / /

Add Deleted Date 2023/01/01 to:

GTA

MAR

NT

There are some previous “replaced by” cross-references that no longer apply, but will be left as-is because they are correct for the period immediately following when the particular Section was deleted. E.g. ON says “(replaced by GTA, ONE, ONN, and ONS)” whereas now GTA has itself been replaced by GH.

Sponsors: not applicable

Ref. <https://groups.io/g/adifdev/message/9783>

<https://www.rac.ca/changes-to-the-rac-field-organization-effective-january-1-2023/>

Item 162: Add a MY_DARC_DOK field

Status: *Poll: Approved* ~~Ready for poll~~

“To provide a QSL-Check both values are needed (DOK of QSO-partner and DOK of station-owner). Therefore the field MY_DARC_DOK is needed.”

Field Name / Data Type / Enumeration / Description

DARC_DOK / Enumeration / (DOKs and Special DOKs listed on the DARC website) / the logging station's DARC DOK (District Location Code) A DOK comprises letters and numbers, e.g. <MY_DARC_DOK:3>A01

Sponsors: DJ7NT, AA6YQ, G3ZOD

Ref. <https://groups.io/g/adifdev/message/9749>

Item 161: Add HELL submodes implemented by fldigi ~~Review modes implemented by fldigi~~

Status: *Ready for inclusion* ~~Closed~~

Add two HELL submodes: FSKH245 and FSKH105

Resolved.

Ref. <https://groups.io/g/adifdev/message/9807>

Item 160: Add support for New Zealand Regions award

☑ Status: **Poll: Approved** ~~Ready for poll~~

The Secondary Administrative Subdivision table and CNTY / MY_CNTY fields support one set of subdivisions per DXCC entity. Representing the additional NZART Regions award as well as the NZART Counties award and other future occurrences of more than one subdivision per DXCC entity, requires new enumerations and fields.

The new fields will be CNTY_ALT & MY_CNTY_ALT. and the enumerations will be “Secondary Administrative Subdivision Alt” and “NZ_Regions”.

Note: there are no changes to the existing CNTY & MY_CNTY fields nor to the existing “Secondary Administrative Subdivision” enumeration, i.e. no backwards-compatibility issues.

Data Type:

Data Type Name	Data Type Indicator	Description
SecondaryAdministrativeSubdivisionListAlt		<p>a semicolon (;) delimited, unordered list of one or more members of a Secondary_Administrative_Subdivision_Alt enumeration in the form: <i>enumeration-name:enumeration-code</i></p> <p>Where there is more than one locality represented by the enumeration-code, they are separated by slash (/) characters. Only one of each enumeration-name valid for the DXCC entity concerned can appear in the list.</p> <p>Examples: <CNTY_ALT:28>NZ_Regions:Hawkes Bay/Wairoa <MY_CNTY_ALT:52>NZ_Islands:North Island;NZ_Regions:Hawkes Bay/Wairoa</p> <p>The first example shows the enumeration-name NZ_Regions with the region Hawkes Bay and the district Wairoa.</p> <p>For the purposes of illustration, the second example includes a non-existent subdivision with two available enumeration-codes, NZ_Islands:North Island and NZ_Islands:South Island.</p>

The example shows:

- the enumeration-name NZ_Islands with the island North Island
- the enumeration-name NZ_Regions with the region Hawkes Bay and the district Wairoa

Fields:

Field Name	Data Type	Enumeration	Description
CNTY_ALT	SecondaryAdministrativeSubdivisionListAlt		a semicolon (;) delimited, unordered list of Secondary Administrative Subdivision Alt codes for the contacted station See the Data Type for details.
MY_CNTY_ALT	SecondaryAdministrativeSubdivisionListAlt		a semicolon (;) delimited, unordered list of Secondary Administrative Subdivision Alt codes for the logging station See the Data Type for details.

Secondary Administrative Subdivision Alt Enumeration

Secondary Subdivision	Country Code	DXCC Entity	Award	Subdivision Enumeration	Award Sponsor	Code Format	Examples
NZ_Regions	170	New Zealand	NZ Regions	NZ_Regions	NZART	<Enumeration>:<Region>/<District>	NZ_Regions:Hawkes Bay/Wairoa → Hawkes Bay region, Wairoa district

NZ_Regions Enumeration

Code	Region	District
NZ_Regions:Northland/Far North	Northland	Far North
NZ_Regions:Northland/Whangarei	Northland	Whangarei
NZ_Regions:Northland/Kaipara	Northland	Kaipara
NZ_Regions:Auckland/Rodney	Auckland	Rodney
NZ_Regions:Auckland/North Shore	Auckland	North Shore
NZ_Regions:Auckland/Waitakere	Auckland	Waitakere
NZ_Regions:Auckland/Auckland	Auckland	Auckland
NZ_Regions:Auckland/Manukau	Auckland	Manukau
NZ_Regions:Auckland/Papakura	Auckland	Papakura
NZ_Regions:Auckland/Franklin	Auckland	Franklin
NZ_Regions:Waikato/Thames-Coromandel	Waikato	Thames-Coromandel
NZ_Regions:Waikato/Hauraki	Waikato	Hauraki
NZ_Regions:Waikato/Waikato	Waikato	Waikato
NZ_Regions:Waikato/Matamata Piako	Waikato	Matamata Piako
NZ_Regions:Waikato/Hamilton	Waikato	Hamilton
NZ_Regions:Waikato/Waipā	Waikato	Waipā
NZ_Regions:Waikato/Otorohanga	Waikato	Otorohanga
NZ_Regions:Waikato/South Waikato	Waikato	South Waikato
NZ_Regions:Waikato/Waitomo	Waikato	Waitomo
NZ_Regions:Waikato/Taupo	Waikato	Taupo
NZ_Regions:Bay of Plenty/Western Bay of Plenty	Bay of Plenty	Western Bay of Plenty
NZ_Regions:Bay of Plenty/Tauranga	Bay of Plenty	Tauranga
NZ_Regions:Bay of Plenty/Rotorua	Bay of Plenty	Rotorua
NZ_Regions:Bay of Plenty/Kawerau	Bay of Plenty	Kawerau
NZ_Regions:Bay of Plenty/Whakatane	Bay of Plenty	Whakatane
NZ_Regions:Bay of Plenty/Opotiki	Bay of Plenty	Opotiki

NZ_Regions:Gisborne/Gisborne	Gisborne	Gisborne	
NZ_Regions:Hawkes Bay/Wairoa	Hawkes Bay	Wairoa	
NZ_Regions:Hawkes Bay/Hastings	Hawkes Bay	Hastings	
NZ_Regions:Hawkes Bay/Napier	Hawkes Bay	Napier	
NZ_Regions:Hawkes Bay/Central Hawkes Bay	Hawkes Bay	Central Hawkes Bay	
NZ_Regions:Taranaki/New Plymouth	Taranaki	New Plymouth	
NZ_Regions:Taranaki/Stratford	Taranaki	Stratford	
NZ_Regions:Taranaki/South Taranaki	Taranaki	South Taranaki	
NZ_Regions:Wanganui-Manawatu/Ruapehu	Wanganui-Manawatu	Ruapehu	
NZ_Regions:Wanganui-Manawatu/Wanganui	Wanganui-Manawatu	Wanganui	
NZ_Regions:Wanganui-Manawatu/Rangitikei	Wanganui-Manawatu	Rangitikei	
NZ_Regions:Wanganui-Manawatu/Manawatu	Wanganui-Manawatu	Manawatu	
NZ_Regions:Wanganui-Manawatu/Palmerston North	Wanganui-Manawatu	Palmerston North	
NZ_Regions:Wanganui-Manawatu/Horowhenua	Wanganui-Manawatu	Horowhenua	
NZ_Regions:Wanganui-Manawatu/Tararua	Wanganui-Manawatu	Tararua	
NZ_Regions:Wellington/Masterton	Wellington	Masterton	
NZ_Regions:Wellington/Carterton	Wellington	Carterton	
NZ_Regions:Wellington/South Wairarapa	Wellington	South Wairarapa	
NZ_Regions:Wellington/Kapiti Coast	Wellington	Kapiti Coast	
NZ_Regions:Wellington/Porirua	Wellington	Porirua	
NZ_Regions:Wellington/Upper Hutt	Wellington	Upper Hutt	
NZ_Regions:Wellington/Lower Hutt	Wellington	Lower Hutt	
NZ_Regions:Wellington/Wellington	Wellington	Wellington	
NZ_Regions:Nelson/Nelson	Nelson	Nelson	
NZ_Regions:Marlborough/Marlborough	Marlborough	Marlborough	
NZ_Regions:Tasman/Tasman	Tasman	Tasman	
NZ_Regions:West Coast/Buller	West Coast	Buller	
NZ_Regions:West Coast/Grey	West Coast	Grey	
NZ_Regions:West Coast/Westland	West Coast	Westland	

NZ_Regions:Canterbury/Kaikoura	Canterbury	Kaikoura
NZ_Regions:Canterbury/Hurunui	Canterbury	Hurunui
NZ_Regions:Canterbury/Selwyn	Canterbury	Selwyn
NZ_Regions:Canterbury/Waimakariri	Canterbury	Waimakariri
NZ_Regions:Canterbury/Christchurch	Canterbury	Christchurch
NZ_Regions:Canterbury/Banks Peninsula	Canterbury	Banks Peninsula
NZ_Regions:Canterbury/Ashburton	Canterbury	Ashburton
NZ_Regions:Canterbury/Mackenzie	Canterbury	Mackenzie
NZ_Regions:Canterbury/Timaru	Canterbury	Timaru
NZ_Regions:Canterbury/Waimate	Canterbury	Waimate
NZ_Regions:Otago/Waitaki	Otago	Waitaki
NZ_Regions:Otago/Queenstown-Lakes	Otago	Queenstown-Lakes
NZ_Regions:Otago/Central Otago	Otago	Central Otago
NZ_Regions:Otago/Dunedin	Otago	Dunedin
NZ_Regions:Otago/Clutha	Otago	Clutha
NZ_Regions:Southland/Gore	Southland	Gore
NZ_Regions:Southland/Southland	Southland	Southland
NZ_Regions:Southland/Invercargill	Southland	Invercargill

Sponsors: AA6YQ, G3ZOD

Ref. <https://groups.io/g/adifdev/message/9721>

<https://www.nzart.org.nz/assets/activity/awards/Awards-NZART-2023.pdf>

Item 159: QSLMSG-related clarifications

Status: *Ready for inclusion*

- Add a note to COMMENT and COMMENT_INTL fields respectively:

“for a message to be incorporated in a paper or electronic QSL for the contacted station's operator, use the QSLMSG field”

“for a message to be incorporated in a paper or electronic QSL for the contacted station's operator, use the QSLMSG_INTL field”

Ref. <https://groups.io/g/adifdev/message/9426>

- Change the description of the QSLMSG and QSLMSG_INTL fields from:

“QSL card comment”

to

“a message for the contacted station's operator to be incorporated in a paper or electronic QSL”

Ref. <https://groups.io/g/adifdev/message/9426>

Item 158: Add QSO Field QSLMSG_RCVD

Status: *Poll: Approved Ready for poll*

Field Name / Data Type / Enumeration / Description

QSLMSG_RCVD / MultilineString / - / a message addressed to the logging station's operator incorporated in a paper or electronic QSL

Sponsors: G3ZOD, NY4I, AD1C, DJ7NT

Ref. <https://groups.io/g/adifdev/message/9357>

Item 157: Add QSO fields to support the DARC DCL online service

Status: *Poll: Approved Ready for poll*

Add to QSO fields including links to DCL <https://www.darc.de/en/der-club/referate/committee-dx/diplome/darc-community-logbook-dcl/>

Field Name	Data Type	Enumeration	Description
DCL_QSLRDATE	Date		date QSL received from DCL (only valid if DCL_QSL_RCVD is Y, I, or V) (V import-only)
DCL_QSLSDATE	Date		date QSL sent to DCL (only valid if DCL_QSL_SENT is Y, Q, or I)
DCL_QSL_RCVD	Enumeration	QSL Rcvd	DCL QSL received status (V import-only)

			Default Value: N
DCL_QSL_SENT	Enumeration	QSL Sent	DCL QSL sent status Default Value: N

Sponsors: AA6YQ, G3ZOD

Ref. <https://groups.io/g/adifdev/message/9420>

Item 156: Revise POTA data types and field definitions

Status: Work in progress

POTA references have changed and the ADIF representation needs revising.

For examples specifically, <https://groups.io/g/adifdev/message/9738> :

"In addition to adding 5-digit park numbers, POTA has also changed the prefix to be 2-letter ISO codes, so this example should probably be changed to US-10000, K-5033 changed to US-5033, VE-5082@CA-AB changed to CA-5082@CA-AB, 8P-0012 changed to BB-0012, VK-0556 changed to AU-0556, and K-4562@US-CA changed to US-4562@US-CA."

Existing definition:

a sequence of case-insensitive Characters representing a Parks on the Air park reference in the form xxxx-nnnnn[@yyyyyy] comprising 6 to 17 characters where:

- xxxx is the POTA national program and is 1 to 4 characters in length, typically the default callsign prefix of the national program (rather than the DX entity)
- nnnnn represents the unique number within the national program and is either 4 or 5 characters in length (use the exact format listed on the POTA website)
- yyyyyy ****Optional**** is the 4 to 6 character ISO 3166-2 code to differentiate which state/province/prefecture/primary administration location the contact represents, in the case that the park reference spans more than one location (such as a trail).

Examples of the POTARef Data Type:

Reference	Location
K-5033	Golden Hill State Forest
K-10000	5-digit park numbers are reserved for future use
VE-5082@CA-AB	The Great Trail of Canada (the Canadian Trailway) National Scenic Trail, within Alberta, Canada
8P-0012	Chancery Lane Swamp National Park
VK-0556	Pieman River State Reserve
K-4562@US-CA	Pacific Crest Trail, within California, USA

Additional Notes on POTARef:

- A browsable and searchable list of all park references is available.
- A complete CSV file is available (generated nightly).
- For more information, visit the Parks on the Air documentation website.

Revised definition:

a sequence of case-insensitive Characters representing a Parks on the Air park reference in the form x-n[@y] where:

- *x* is a 2-character country code as specified in ISO-3166-2
- *n* represents the unique number within the national program and is either 4 or 5 characters in length (use the exact format listed on the POTA website)
- *y* ****Optional**** is to differentiate which state/province/prefecture/primary administration location the contact represents, in the case that the park reference spans more than one location (such as a trail)

Examples of the POTARef Data Type:

Reference	Location
US-5033	United States of America / Golden Hill State Forest
US-11850	United States of America / Mount Prindle Campground BLM Recreation Management Area
CA-5082@CA-AB	Canada / The Trans Canada Trail National Scenic Trail / Alberta
BB-0012	Barbados / Chancery Lane Swamp National Park
AU-0556	Australia / Pieman River State Reserve
US-4562@US-CA	United States of America / Pacific Crest Trail National Scenic Trail / California

Additional Notes on POTARef:

- A browsable and searchable list of all park references is available.
- A complete CSV file is available (generated nightly).
- For more information, visit the Parks on the Air documentation website.

Ref.

Item 155: Kosovo Region / Country

Status: **Work in progress** *Ready for inclusion*

Change the single KO row in the Region Enumeration to 3 rows and add Start Date and End Date columns:

Region Entity Code	DXCC Entity Code	Region	Prefix	Applicability	Start Date	End Date
NONE		Not within a WAE or CQ region that is within a DXCC entity				
IV	206	ITU Vienna	4U1V	CQ, WAE		
AI	248	African Italy	IG9	WAE		
SY	248	Sicily	IT9	CQ, WAE		
BI	259	Bear Island	JW/B	CQ, WAE		
SI	279	Shetland Islands	GM/S	CQ, WAE		
KO	296	Kosovo	YU8	CQ, WAE		2012-09-11

KO	0	Kosovo	Z6	CQ, WAE	2012-09-12	2018-01-20
KO	522	Kosovo	Z6	CQ, WAE	2018-01-21	
ET	390	European Turkey	TA1	CQ		

In section III.B.20 Region Enumeration, change:

Region Identity Code / DXCC Entity Code / Region / Prefix / Applicability
 KO / 296 / Kosovo / Z6 / CQ, WAE

to:

KO / 296 / Kosovo (for contacts made before 2018-01-21) / Z6 / CQ, WAE

Ref. <https://web.archive.org/web/20150620091730/http://www.art-ks.org/?cid=2,23,534>
http://www.arrl.org/files/file/DXCC/2022_Current_Deleted.txt
<https://groups.io/g/adifdev/message/8881>

Item 153: Review naming of Application-defined fields

Status: *Ready for inclusion*

Add to IV.A.4. Application-defined Fields:

APP_PROGRAMID_FIELDNAME may not

o contain

- a comma
- a colon
- an open-angle-bracket or close-angle-bracket character
- an open-curly-bracket or close-curly-bracket character

o end with a space character

Ref. <https://groups.io/g/adifdev/message/9324>

Item 152: Extend (MY_)VUCC_GRIDS to 6-character locators

Status: *Ready for inclusion*

Extend the definition of (MY_)VUCC_GRIDS to include 6-character locators to bring them into line with LoTW and include in examples.

Ref. <https://groups.io/g/adifdev/message/8851>

Item 151: Add QSO fields to represent a Morse code key

Status: *Poll: Approved Ready for poll*

Add QSO fields:

Field Name	Data Type	Enumeration	Description
MORSE_KEY_INFO	String		details of the contacted station's Morse key (e.g. make, model, etc).

			Example: <MORSE_KEY_INFO:16>Begali Sculpture
MORSE_KEY_TYPE	Enumeration	Morse Key Type	the contacted station's Morse key type (e.g. straight key, bug, etc). Example for a dual-lever paddle: <MORSE_KEY_TYPE:3>DLP
MY_MORSE_KEY_INFO	String		details of the logging station's Morse key (e.g. make, model, etc). Example: <MY_MORSE_KEY_INFO:16>Begali Sculpture
MY_MORSE_KEY_TYPE	Enumeration	Morse Key Type	the logging station's Morse key type (e.g. straight key, bug, etc). Example for a dual-lever paddle: <MY_MORSE_KEY_TYPE:3>DLP

Add enumeration Morse Key Type:

Abbreviation	Meaning	Characteristics	Morse Composition	Examples
SK	Straight Key	a single control which actuates a single switch.	a human makes the dits and dahs and builds characters	Lionel J-38
SS	Sideswiper	a single control which actuates a SPDT (single poll, double throw) switch.	a human makes the dits and dahs and builds characters	W1SFR Green Machine Torsion Bar Cootie
BUG	Mechanical semi-automatic keyer or Bug	a control which actuates a switch as well as a control which actuates a spring and pendulum mechanism which actuates a switch. Both switches are wired in parallel.	a machine makes the dits and a human makes the dahs and builds characters.	Vibroplex Blue Racer Deluxe
FAB	Mechanical fully-automatic keyer or Bug	a control which actuates one of two separate spring and pendulum mechanisms at a time, each of which actuates a switch. Both switches are wired in parallel.	a machine makes the dits and the dahs and a human builds characters.	GHD GN209FA fully-automatic bug

SP	Single Paddle	a single control which actuates two independent switches.	a machine makes the dits and the dahs and a human builds the characters.	American Morse Mini-B
DP	Dual Paddle	two controls which actuate independent switches.	a machine makes the dits and the dahs and a human builds the characters.	Begali Sculpture, VK3IL pressure paddles, MOUKD capacitive touch paddles
CPU	Computer Driven	an electronic device performs the actuation of the switch.	a machine makes the dits and dahs to build the characters.	N1MM+ Logging Software

Sponsors: VA2NW, AA6YQ, G3ZOD

Ref. <https://groups.io/g/adifdev/message/8931>

<https://groups.io/g/adifdev/message/9443>

<https://groups.io/g/adifdev/message/9600>

Item 150: Minor changes and corrections #9

Status: *Ready for inclusion*

Add explanation of Import and Export.

Insert a new section before "I.C. Applicability":

I.C. Terminology

Export: Saving data from an application or service into ADIF format.

Import: Loading data in ADIF format into an application or service.

Change the first line in the current section "I.C. Applicability" from:

ADIF's purpose is to enable the reliable transfer of amateur radio information from one application or service to another.

to:

ADIF's purpose is to enable the reliable transfer of amateur radio information from one application or service ("export") via an intermediate form (ADIF) to another application or service ("import").

Ref. <https://groups.io/g/adifdev/message/8838>

In section III.B.6 Continent Enumeration, change the name "Oceana" to "Ocean*ia*".

Ref. <https://groups.io/g/adifdev/message/9207>

In section III.A.1 Maidenhead Locators, change the examples so that the same locator occurs in all of them.

Also add a note:

"If both GRIDSQUARE and VUCC_GRIDS are exported in a QSO record, the locator in GRIDSQUARE should be consistent with the locators in VUCC_GRIDS. Similarly, MY_GRIDSQUARE should be consistent with MY_VUCC_GRIDS."

*For example, the following is consistent because the locators in VUCC_GRIDS have four characters and the first four characters in GRIDSQUARE are the same as those in one of the locators in VUCC_GRIDS:
<MY_GRID_SQUARE:6>EM97AB <VUCC_GRIDS:19>EN98,FM08,EM97,FM07”*

- In section "IV.A.6. ADI Records" correct "the the".
 - For clarity in the QSO fields VUCC_GRIDS, MY_VUCC_GRIDS, USACA_COUNTIES and MY_USACA_COUNTIES, add to the start of the description:
“a comma-delimited list of”
 - Bring the DXCC III.B.8 DXCC Entity Code Enumeration back in line with the ARRL list.
Ref. <https://groups.io/g/adifdev/message/9355>
 - Corrections/updates to the Primary Administrative Subdivisions.
<https://www.iso.org/obp/ui/#iso:code:3166:AR> DXCC 100 Argentina
<https://www.iso.org/obp/ui/#iso:code:3166:BR> DXCC 108 Brazil
<https://www.iso.org/obp/ui/#iso:code:3166:CL> DXCC 112 Chile
<https://www.iso.org/obp/ui/#iso:code:3166:DE> DXCC 230 Germany
<https://www.iso.org/obp/ui/#iso:code:3166:ES>
DXCC 281 Spain
DXCC 21 Balearic Is.
DXCC 29 Canary Is.
DXCC 32 Ceuta & Melilla
<https://www.iso.org/obp/ui/#iso:code:3166:FR> DXCC 227 France
<https://www.iso.org/obp/ui/#iso:code:3166:IE> DXCC 245 Ireland
<https://www.iso.org/obp/ui/#iso:code:3166:MX> DXCC 50 Mexico
<https://www.iso.org/obp/ui/#iso:code:3166:NL> DXCC 263 Netherlands
<https://www.iso.org/obp/ui/#iso:code:3166:NZ> DXCC 170 New Zealand
<https://www.iso.org/obp/ui/#iso:code:3166:PG> DXCC 163 Papua New Guinea
<https://www.iso.org/obp/ui/#iso:code:3166:PH> DXCC 375 Philippines
<https://www.iso.org/obp/ui/#iso:code:3166:PY> DXCC 132 Paraguay
<https://www.iso.org/obp/ui/#iso:code:3166:IT> DXCC 225 Sardinia
<https://www.iso.org/obp/ui/#iso:code:3166:RO> DXCC 275 Romania
<https://www.iso.org/obp/ui/#iso:code:3166:SE> DXCC 284 Sweden
<https://www.iso.org/obp/ui/#iso:code:3166:UY> DXCC 144 Uruguay
 - Replace broken links in NZART Counties Secondary Administrative Subdivision enumeration row with links to adif.org.uk copies of the documents.
 - Put all the Enumeration tables back into alphabetical order and update the section numbers.
 - For consistency, the section “III.B.12.a. U.S. Counties (Alaska)” title should end in “Enumeration”.
 - Remove DXCC 134 from the list of DXCCs for the PAC ARRL section because it is a deleted DXCC.
- Ref. <https://groups.io/g/adifdev/message/9355>
<https://groups.io/g/adifdev/message/9418>
<https://groups.io/g/adifdev/message/9721>

Item 149: Add primary administrative subdivisions for DXCCs 324, 11, 142 & 70

Status: Ready for inclusion

I propose that we add enumerations for Primary Administrative Subdivisions in India (country code 324), Andaman and Nicobar Islands (country code 11), and Lakshadweep Islands (country code 142) to the next version of ADIF (3.1.5) using the names defined by ISO 3166.

I propose that the Primary Administrative Subdivisions for Cuba (DXCC country code 70) be added to ADIF based on the information in... ISO 3166.

2024-10-06 The ARSI web pages <https://arsi.info/dxcontest/> and <https://arsi.info/awards-wavu/> conflict with ISO 3186:IN in that ARSI has codes DN and DD whereas ISO 3166:IN lists them as being merged into DH in a change dated 2020-11-24. Since the priority is to support ARSI awards & contests, ADIF will include codes DN and DD instead of DH along with a footnote to explain the discrepancy:

Note that ISO 3166-2: India merges codes DD and DN into DH but the above list reflects the ARSI website's lists of codes for their VU-DX Contest and Worked All VU Award.

Enumeration for Country Code 11 (Andaman & Nicobar Is.)

Code	Primary Administrative Subdivision
-------------	---

AN	Andaman and Nicobar Islands (Union territory)
----	---

Enumeration for Country Code 70 (Cuba)

Code	Primary Administrative Subdivision
-------------	---

15	Artemisa (province)
09	Camagüey (province)
08	Ciego de Ávila (province)
06	Cienfuegos (province)
12	Granma (province)
14	Guantánamo (province)
11	Holguín (province)
99	Isla de la Juventud (special municipality)
03	La Habana (province)
10	Las Tunas (province)
04	Matanzas (province)
16	Mayabeque (province)
01	Pinar del Río (province)
07	Sancti Spíritus (province)
13	Santiago de Cuba (province)
05	Villa Clara (province)

Enumeration for Country Code 142 (Lakshadweep Is.)

Code	Primary Administrative Subdivision
-------------	---

LD	Lakshadweep (Union territory)
----	-------------------------------

Enumeration for Country Code 324 (India)

Code	Primary Administrative Subdivision
-------------	---

AP	Andhra Pradesh (state)
AR	Arunāchal Pradesh (state)
AS	Assam (state)
BR	Bihār (state)
CH	Chandīgarh (Union territory)
CG	Chhattīsgarh (state)
DD	Damān and Diu (Union territory)
DL	Delhi (Union territory)
DN	Dādra and Nagar Haveli (Union territory)
GA	Goa (state)
GJ	Gujarāt (state)
HR	Haryāna (state)
HP	Himāchal Pradesh (state)
JK	Jammu and Kashmīr (Union territory)
JH	Jhārkhand (state)
KA	Karnātaka (state)
KL	Kerala (state)
LA	Ladākh (Union territory)
MP	Madhya Pradesh (state)
MH	Mahārāshtra (state)
MN	Manipur (state)
ML	Meghālaya (state)
MZ	Mizoram (state)
NL	Nāgāland (state)
OD	Odisha (state)
PY	Puducherry (Union territory)
PB	Punjab (state)
RJ	Rājasthān (state)
SK	Sikkim (state)
TN	Tamil Nādu (state)
TS	Telangāna (state)
TR	Tripura (state)
UP	Uttar Pradesh (state)
UK	Uttarākhhand (state)
WB	West Bengal (state)

Sponsors: AA6YQ

Ref. <https://groups.io/g/adifdev/message/8821>

<https://www.iso.org/obp/ui/#iso:code:3166:IN>
<https://groups.io/g/adifdev/message/8877>
<https://www.iso.org/obp/ui/#iso:code:3166:CU>

Item 148: Correct the Region enumeration's African Italy entry

Status: *Ready for inclusion*

In section III.B.20 Region Enumeration's African Italy, change WAE to CQ.

Ref. <https://groups.io/g/adifdev/message/8806>
<https://groups.io/g/adifdev/message/6782>

Item 147: Updates to Contest IDs

Status: *Ready for inclusion*

Add the following to the Contest ID enumeration (*Description; Contest-ID*):

ARI Italian Activity Contests (IAC):

Italian Activity Contest (VHF); ARI-IAC-VHF

Italian Activity Contest (UHF); ARI-IAC-UHF

Italian Activity Contest (6m); ARI-IAC-6M

Italian Activity Contest (23cm); ARI-IAC-23CM

Italian Activity Contest (13cm+); ARI-IAC-13CM

Italian EME Trophy; ARI-EME

K1USN Slow Speed Open; K1USN-SSO <http://k1usn.com/sso.html>

DARC:

DARC FT4 Contest; DARC-FT4

PCC:

<https://www.procontestclub.ro/PCC%20Rules.html>

PCC Pro CW Contest; PCC

Correct the description for CVA-DX-SSB, which says "CW" rather than "SSB".

Ref. <https://groups.io/g/adifdev/message/8804>
<https://groups.io/g/adifdev/message/8809>
<https://groups.io/g/adifdev/message/9293>
<https://www.ari.it/english-area/eme/7962-10th-ari-italian-eme-trophy-2024.html>

Item 146: Provide read-only announcements of new proposed & released ADIF Specifications

Status: *Work in progress*

Consider providing read-only announcements of new proposed and released ADIF Specifications that can be subscribed to without the need to receive other traffic from the "adifdev" / "adifvoting" Groups.io groups.

Possibilities are

- Use "special" messages in the adifdev group (but requires that no other use is made of "special" messages, which cannot be guaranteed (e.g. there is more than one owner/moderator and there may be other circumstances a "special" message is needed)).

- Add a subgroup to the “adifdev” group (need to check if subgroups can be made to be announcements-only).
- Add a completely new group e.g. “adifannouncements” or “adifnotices” or ... “adifreleases” or ...

Ref. <https://groups.io/g/adifdev/message/8787>

Item 145: Provide an optional register of PROGRAMID values

Status: *Work in progress*

Consider adding an optional register of PROGRAMID values used in the PROGRAMID and APP_PROGRAMID_FIELDNAME fields. This could help avoid name clashes and also be informative. This could be incorporated in the ADIF Specification, or probably better to have a website page and a link to the page in the Specification.

2024-10-06: Add a an adif.org.uk web page <https://adif.org.uk/programids> with a description and a table containing these columns:

- “PROGRAMID” will contain an ID used by an application.
- “Used in Fields” will contain “PROGRAMID”, “APP”, or both.
- “Application” will contain the name of the application and a website link if one is available.
- The “Notes” column will contain any additional information.
- “Updated” column will contain the date the table row was last added or modified.

The table will be sorted in ascending order on the “Program ID” column then by the “Used in Fields” column. Here’s an outline of a web page:

Register of PROGRAMID Values used in PROGRAMID and APP Field Values

This register of PROGRAMID field values is provided to assist with avoiding name clashes. It is helpful if application developers provide this information but it is voluntary. To provide details of a PROGRAMID, please post a message with details in the [ADIFDev Groups.io group](#).

PROGRAMID	Used in Fields	Application	Notes	Updated
<i>FISTSLogConverter</i>	<i>PROGRAMID</i>	<i>FISTS Log Converter</i>		<i>2024-10-06</i>
<i>ZZA</i>	<i>APP</i>	<i>GM3ZZA Logbook</i>		<i>2024-10-06</i>
<i>ZZALOG</i>	<i>PROGRAMID</i>	<i>GM3ZZA Logbook</i>		<i>2024-10-06</i>

Add the following to the Description for the PROGRAMID field in section III.C.1. ADIF-defined Fields.

To help avoid name clashes, the Register of PROGRAMID Values used in PROGRAMID and APP Field Values web page provides a voluntary list of PROGRAMID values.

Add the following to section III.C.2 Application-defined Fields:

To help avoid name clashes, the Register of PROGRAMID Values used in PROGRAMID and APP Field Values web page provides a voluntary list of PROGRAMID values.

Ref. <https://groups.io/g/adifdev/message/8785>

Item 144: Add download date/status fields for QRZ.com

Status: **Poll: Approved** ~~Ready for poll~~

Add to Enumerations “QSO Download Status”

Status, Description

Y, the QSO has been downloaded from the online service
N, the QSO has not been downloaded from the online service
I, ignore or invalid

Add to QSO Fields:

Field Name, Data Type, Enumeration, Description

QRZCOM_QSO_DOWNLOAD_DATE, Date, -, date QSO downloaded from QRZ.com logbook
QRZCOM_QSO_DOWNLOAD_STATUS, Enumeration, QSO Download Status, QRZ.com logbook QSO download status

Sponsors: G4POP, AA6YQ

Ref. <https://groups.io/g/adifdev/message/8759>

Item 143: Add fields for Castles on the Air

Status: Work in progress

Update 2024-07-16: This has proven problematic due to there not being a single, universally accepted list of locations and references, i.e. different countries have variations. It seems there are two approaches, neither of which is desirable: (1) have separate field for each amateur radio organization concerned or (2) have a single field that can contain distinct references for each country concerned. Although (2) seems tidier, it's not obvious that different countries' references can be confirmed to be equivalent.

t.b.s.

Ref. <https://groups.io/g/adifdev/message/7767>

Item 135: Review the ADIF specification w.r.t. importing unexpected data

Status: Work in progress

Update 2024-07-16: No suggestions for specific changes have been made, so it's likely that the most that can be achieved is to bear this topic in mind when adding new fields or changing existing ones.

The specification rarely discusses how to deal with import of unexpected data that is conforming to a later version of ADIF. E.g. if the (MY_)GRIDSQUARE fields had long ago specified that any characters beyond 8 should be silently ignored, then the current issue over allowing longer locators in them would not have arisen.

Ref. <https://groups.io/g/adifdev/message/8608>

Item 129: Mode/Submode support for GMSK, FSK and FSK-W

Status: Work in progress

Add FSK as a Submode of MFSK.

Add GMSK as a Submode of PSK.

FSK-W can be logged as FSK, so I don't see need at this stage for adding an FSK-W Submode.

Ref. <https://n1mmwp.hamdocs.com/manual-operating/digital-modes/>
<https://groups.io/g/adifdev/message/8225>

Item 114: Register ADIF media (aka MIME) types

Status: *Work in progress*

Update 2024-07-16: This has not been pursued as yet in order to avoid having mime types added then subsequently having to change them due to potential changes related to supporting international characters.

Register ADIF media (aka MIME) types.

Document them in the ADIF specification.

Ref: <https://groups.io/g/adifdev/message/8121>

Item 112: Minor changes and corrections #5

Status: *Work in progress*

Note: the following two items were moved from Item 106

The Asiatic Russia entry:

PM Perm` (Permskaya oblast) - for contacts made on or after 2005-12-01 140 17 30
needs changing to:

PM Perm` (Permskaya oblast) - for contacts made on or after 2005-12-01 **and made before 2011-12-02** 140 17 30

A new European Russia entry needs adding:

PM Perm` (Permskaya oblast) - for contacts made on or after 2011-12-02 140 17 30

The Asiatic Russia entry:

KO Republic of Komi 90 17 20
needs changing to:

KO Republic of Komi - **for contacts made before 2011-12-02** 90 17 20

A new European Russia entry needs adding:

KO Republic of Komi – for contacts made on or after 2011-12-02 90 17 20

“It looks like the PM, KP and KO entries should just be moved en-bloc from Asiatic Russia to European Russia without any date demarcation.”

Note: awaiting clarification from ARRL.

Ref: <https://groups.io/g/adifdev/message/7798>

Item 107: Add Support for Extended Character Sets

Status: *Work in progress*

Update 2024-07-18 To be addressed for ADIF 3.1.6

Ref.

Item 088: Minor Changes and Corrections #3

Status: *Work in progress*

- In "III.B.11 Primary Administrative Subdivision Enumeration" add a "Deleted Date" column. For deleted items, this will contain the date on which the item was deleted, and for other items will be blank.
- In "III.B.11 Primary Administrative Subdivision Enumeration" some of the Primary Administrative Subdivision column values contain comments in addition to a name, e.g.
 Ust'-Ordynsky Autonomous Okrug - for contacts made before 2008-01-01
 To make the actual names machine-readable and consistent with other tables in the specification, surround the comments in parentheses, e.g. change the above to:
 Ust'-Ordynsky Autonomous Okrug (for contacts made before 2008-01-01)
- In "III.B.11 Primary Administrative Subdivision Enumeration", a few entries are marked as "import-only" (deprecated). These should instead be marked "deleted" because they are still correct for QSOs prior to the date their use ceased.
- The ADIF HTML files currently use "windows-1252" encoding; change this to UTF-8.
- "We have the "Delete date" for the ON province change and "From date" for the new ON sections but there are no dates for WTX and WCF which were added in the 1980's I think (fuzzy in the mind now). Seems like there was another one that was added sometime about then but it escapes me at the moment. 73, Larry W6NWS"
 Ref. <https://groups.yahoo.com/neo/groups/adifdev/conversations/topics/7078>
- In III.C.1.b QSO Fields, for consistency with the other enumerations that have values depending on another field, change:
 Submode (function of MODE field's value)
 to:
 (Submode, function of MODE field's value)

Item 087: Correct HFSK submode

Status: *Work in progress*

In ADIF 3.0.4, HFSK was thought to be an FSK Hell mode and consequently moved from the Mode table into a submode of HELL. It's been pointed out that the FSK submode of Hell is FSKHELL. From messages some years ago, HFSK is believed to be "high speed FSK" and it is noted that then, and now, no known software specifies HFSK as a mode.

No recent progress on this due to being unable to assess the impact, i.e. how much this may have been used.

Ref. <https://groups.yahoo.com/neo/groups/adifdev/conversations/messages/7018>

Item 085: Add Primary Administrative Subdivision for Norway

Status: *Ready for inclusion*

Category	Code	Name	DXCC	DXCC Name
county	42	Agder	266	NORWAY
county	34	Innlandet	266	NORWAY
county	15	Møre og Romsdal	266	NORWAY
county	18	Nordland	266	NORWAY
county	03	Oslo	266	NORWAY
county	11	Rogaland	266	NORWAY

county	54	Troms og Finnmark	266	NORWAY
county	50	Trøndelag	266	NORWAY
county	38	Vestfold og Telemark	266	NORWAY
county	46	Vestland	266	NORWAY
county	30	Viken	266	NORWAY
arctic region	22	Jan Mayen	118	JAN MAYEN
arctic region	21	Svalbard	259	SVALBARD

Ref. <https://www.iso.org/obp/ui/#iso:code:3166:NO>
<https://groups.io/g/adifdev/message/7054>

Item 083: Remove Digit, Character, and IntlCharacter from Data Types table

Status: Work in progress

Background: although Digit, Character, and IntlCharacter appear in section “III.A. Data Types”, they are not used in any ADIF-defined fields nor can they be used in user-defined or application fields.

In the table in section “III.A. Data Types”:

- Remove the rows for Digit, Character, and IntlCharacter.
- Change the definition of String to:
“a sequence of ASCII characters whose code lies in the range of 32 through 126, inclusive”
- Change the definition of MultilineString to:
“a sequence of ASCII characters whose code lies in the range of 32 through 126, inclusive, and line-breaks, where a line break is an ASCII CR (code 13) followed immediately by an ASCII LF (code 10)”
- Change the definition of IntlString to:
“a sequence of Unicode characters (encoded with UTF-8) excluding line break CR (code 13) and LF (code 10) characters”
- Change the definition of MultilineString to:
“a sequence of Unicode characters (encoded with UTF-8) and line-breaks, where a line break is an ASCII CR (code 13) followed immediately by an ASCII LF (code 10)”
- In the definition of Location, change “Character” to “character” and remove the hyperlink.
- In the definition of SOTAREf:
(a) change “a sequence of Characters” to “a String”
(b) change “a / Character” to “a / character”
- Replace occurrences of “Digit” and “Digits” by “ASCII digit” and “ASCII digits” and remove the hyperlinks.

In section “IV.A.1. ADI Data-Specifiers”, remove “IntlCharacter,” from “Fields of type IntlCharacter, IntlString, and IntlMultilineString cannot be used in ADI files.”

In section “IV.A.4. Application-defined Fields”, remove:

“, which can be for any Data type except Digit and Character”

In section “IV.A.5. User-defined Fields”, remove:

“, which can be for any Data type except Digit and Character”

In section “IV.B.2. Application-defined Fields”, remove:

“, which can be for any Data type except Digit, Character, or IntlCharacter”

In section "IV.B.3. User-defined Fields", remove:
", which can be for any Data type except Digit, Character, or IntCharacter"

Ref. tbs

Item 081: Replace "Y" in Deleted columns with "Deleted"

Status: *Ready for inclusion*

A number of tables in the ADIF specification have a "Deleted" column that are blank or have the value "Y" in for a deleted item.

Change the "Y" values to "Deleted" so that they are more prominent, especially for larger tables that flow over more than one page / screen.

Ref. <https://groups.yahoo.com/neo/groups/adifdev/conversations/messages/6837>

Item 080: Clarifications on the fields BAND, BAND_RX, FREQ, & FREQ_RX

Status: *Work in progress*

(1) Add the examples <FREQ:5>7.035 to the FREQ and FREQ_RX field descriptions and <BAND:3>40m to the BAND and BAND_RX field descriptions.

(2) Add the following at the start of the Band enumeration section:

"Although the FREQ and BAND fields are discussed in this section, the same considerations apply to the FREQ_RX and BAND_RX fields.

FREQ contains a frequency in MHz and must only contain digits and at most one decimal point character '.' (ASCII code 46). In particular, NOT ALLOWED is the use of a comma character instead of a '.' and NOT ALLOWED is the use of thousands separators.

BAND contains a band from the Band enumeration below. It must not contain spaces.

The following are guidelines for use of band and frequency in records representing QSOs.

(a) If both FREQ and BAND fields are exported, their values must be consistent according to the values in the Band enumeration table in this section.

(b) If in an imported record:

- FREQ and BAND are inconsistent, use FREQ and ignore BAND.
- FREQ is invalid and BAND is present, use BAND and ignore FREQ.
- FREQ is invalid and BAND is absent or invalid, reject or ignore the record.
- BAND is invalid and FREQ is present, use FREQ and ignore BAND.
- BAND is invalid and FREQ is absent or invalid, reject or ignore the record.

(c) Applications should try to help users avoid mistakenly recording VHF and higher frequencies when they intended HF; this can happen when frequencies in different bands are multiples of 10 apart and can be entered erroneously due to the difference being in the position of a decimal point. For example, 10.105000 MHz (30m) and 10105.000 MHz (3cm)."

Ref. <https://groups.yahoo.com/neo/groups/adifdev/conversations/messages/6995>

Item 071: Make ADIF test files available

Status: *Ready for inclusion*

Update 2024-10-06: ADIF test files have been available for around 7 years but only documented in the ADIF Development Group's Groups.io group and the earlier Yahoo group. Two files have been provided for each release - an ADI file and an ADX file - and the intention has been that, within reason, they contain realistic QSOs and exclude fields and values that are invalid, import-only (deprecated), or deleted. The files are not intended for testing error handling.

The original proposal included a more extensive set of files, but the two provided so far have proven useful and due to the complexity of providing other files (such as ones with import-only (deprecated) items) is unlikely to add sufficient value to justify the effort.

For convenience, the adif.org.uk website will provide a URL that, for a specific ADIF version, will link to the most recent ZIP archive file that includes the test QSO files. A link to the URL will be provided in the ADIF Specification.

Here are the proposed changes to the ADIF Specification and Resources documents, comprising a summary in the Specification document and details in the Resources document.

Add a new ADIF Specification section:

V.D. Test QSO Files based on ADIF Specification Tables

ADIF files containing test QSOs based on data exported from the ADIF Specification's tables are available as:

- ADIF ADI (.adi)
- ADIF ADI (.adx)

A ZIP archive that includes the files **for this version of ADIF** is available from

<https://adif.org.uk/version/resources>

where *version* is the ADIF version as a 3-digit number. For example, for ADIF 3.1.5, the link is <https://adif.org.uk/315/resources>

For more information, see Test QSO Files based on ADIF Specification Tables in the ADIF Resources document.

The link <https://adif.org.uk/315/resources> will redirect to the most recent file because it may change if any issues are discovered post initial release. For this reason, as well as the 3-digit ADIF version number, the actual file name will have a date embedded in it, specifically `ADIF_version_resources_yyyy_mm_dd.zip` For example, `ADIF_315_resources_2024_12_21.zip`

In the ADIF Resources document, change the section title *IV. External Links* to *VI. External Links* and add a new section:

V. Test QSO Files based on ADIF Specification Tables

ADIF files containing test QSOs based on data exported from the ADIF Specification's tables are available as:

- ADIF ADI (.adi)
- ADIF ADI (.adx)

A ZIP archive that includes the files for this version of ADIF is available from

<https://adif.org.uk/version/resources>

where *version* is the ADIF version as a 3-digit number. For example, for ADIF 3.1.5, the link is

<https://adif.org.uk/315/resources>

V.A. ZIP Archive Structure

The ZIP file contents include:

version

tests

ADIF_*version*_test_QSOs_YYYY_MM_DD.adi

ADIF_*version*_test_QSOs_YYYY_MM_DD.adx

Entities_*version*_YYYY_MM_DD.xml

QSO_templates_*version*_YYYY_MM_DD.xslt

ADIF_*version*_status_test_qsos_current_YYYY_MM_DD.adi

ADIF_*version*_status_test_qsos_current_YYYY_MM_DD.adi

source

where:

- *version* is the ADIF Specification version number as 3 digits, e.g. 315
- *status* is the ADIF Specification status of Draft, Proposed, or Released
- *YYYY* is the year, *MM* is the month, and *DD* is the day.
- the source directory contains copies of files used in creating the QSO files in case they are needed for diagnostic purposes.
- the Entities_... and QSO_templates... files are for diagnostic purposes only.

V.B. Test File Contents

The test QSO files include header fields, ADIF-defined QSO fields, application-defined QSO fields, and user-defined QSO fields.

The aim is to incorporate all fields and values that are documented explicitly in the ADI Specification and are not marked as import-only (deprecated) or deleted.

Where the ADIF Specification refers to values that are documented in external documents or on external websites (for example enumeration values in the Secondary Administrative Subdivision table), at least one value will be included.

The ADI and ADX files have the same content except that the ADX file includes printable non-ASCII characters in the *field-name*_INTL fields such as QTH_INTL.

Note: Care must be taken NOT to upload content from the test files to external services such as Club Log or LoTW!

V.C. ~~V.B.~~ Limitations

The QSOs are intended to be realistic but there are known limitations:

- BAND field values are selected pseudo-randomly, resulting in some improbable QSOs such as DX QSOs on microwaves.
- BAND, BAND_RX, FREQ, & FREQ_RX values are based on the ADIF Specification's Band enumeration and may not be available in the contacted station's country and / or the logging station's country.
- Values in contacted station fields that have a relationship (such as DXCC, CONT, & CALL) may not always correspond to each other.
- Values in logging station fields that have a relationship (such as MY_DXCC, OPERATOR, OWNER_CALLSIGN, & STATION_CALLSIGN) may not always correspond to each other.
- QSOs containing a CONTEST_ID will frequently be on an inapplicable BAND, FREQ, BAND_RX, FREQ_RX, date, and time. The same applies to AWARD_SUBMITTED and AWARD_GRANTED.

V.D. ~~V.C.~~ Application for Generating Test QSO Files

For reference, the source code for the CreateADIFTestFiles application for Microsoft™ Windows™ used to create the test files is available from GitHub <https://github.com/g3zod/CreateADIFTestFiles.git>

The application will be updated for each new version of the ADIF Specification.

Note: at the time of writing (2024-10-06), the GitHub link will return a 404 (page not found) response because the repository is still 'private' while undergoing some finalisation.

Ref. <https://groups.yahoo.com/neo/groups/adifdev/conversations/messages/6868>

Item 070.1: Make files exported from the ADIF Specification available

Status: Ready for inclusion

Update 2024-10-06: Add a new ADIF Specification section:

V.C. Data Files Exported from ADIF Specification Tables

Machine-readable files containing data exported from the ADIF Specification's tables are available in these formats: so that developers of ADIF-related software can use them to generate (for example) program data or SQL files. The formats provided are:

- Extensible Markup Language (XML, file type .xml)
- Tab-separated values (TSV, file type .tsv)
- Comma-separated values (CSV, file type .csv)
- Microsoft™ Excel™ Workbook (file type .xlsx)
- Apache™ OpenOffice™ Calc (file type .ods)

A ZIP archive that includes the files for this version of ADIF is available from

<https://adif.org.uk/version/resources>

where *version* is the ADIF version as a 3-digit number. For example, for ADIF 3.1.5, the link is <https://adif.org.uk/315/resources>

For more information, see Data Files Exported from ADIF Specification Tables in the ADIF Resources document.

The link <https://adif.org.uk/315/resources> will redirect to the most recent file because it may change if any issues are discovered post initial release. For this reason, as well as the 3-digit ADIF version number, the actual file name will have a date embedded in it, specifically ADIF_<version>_resources_<yyyy>_<mm>_<dd>.zip For example, ADIF_315_resources_2024_12_21.zip

In the ADIF Resources document, change the section title **IV. External Links** to **VI. External Links** and add a new section:

IV. Data Files Exported from ADIF Specification Tables

Machine-readable files containing data exported from the ADIF Specification's tables are available so that developers of ADIF-related software can use them to generate (for example) program data or SQL files. The formats provided are:

- Extensible Markup Language (XML, file type .xml)
- Tab-separated values (TSV, file type .tsv)
- Comma-separated values (CSV, file type .csv)
- Microsoft™ Excel™ Workbook (file type .xlsx)
- Apache™ OpenOffice™ Calc (file type .ods)

A ZIP archive that includes the files for this version of ADIF is available from

<https://adif.org.uk/version/resources>

where <version> is the ADIF version as a 3-digit number. For example, for ADIF 3.1.5, the link is <https://adif.org.uk/315/resources>

IV.A. ZIP Archive Structure

The ZIP file contents include:

```
version
  exports
    csv
      datatypes.csv
      enumerations.csv
      enumerations_name.csv
      ...
      fields.csv
    ods
      datatypes.ods
      enumerations.ods
      enumerations_name.ods
      ...
      fields.-ods
    tsv
      datatypes.tsv
      enumerations.tsv
      enumerations_name.tsv
      ...
      fields.tsv
```

```

xlsx
    datatypes.xlsx
    enumerations.xlsx
    enumerations_name.xlsx
    ...
    fields.xlsx

xml
    adifexport.xsd
    all.xml
    datatypes.xml
    enumerations.xml
    enumerations_name.xml
    ...
    fields.xml

```

where:

- *version* is the ADIF Specification version number as 3 digits, e.g. 315
- *enumerations_name* represents a set of files, with one for each Enumeration named *name*.
- *datatypes.file-type* files contain all Data Types.
- *enumerations.file-type* files contain all Enumerations in *file-type* format (e.g. .xml). Note that each enumeration has its own header row in the file.
- *fields.file-type* files contain all Fields.
- *all.xml* file contains all Data Types, Enumerations, and Fields.

The file names for individual enumerations are lowercase and have spaces replaced by underscores. For example, the ARRL Sections table is exported as the file *enumerations_arrl_sections.csv*

IV.B. Data File Contents

The CSV, TSV, and XML files are UTF-8 encoded and start with the 3-byte BOM (0xEF, 0xBB, 0xBF).

(While ADIF ADI file contents are restricted to printable ASCII, carriage return, and line feed characters, some ADIF Specification tables contain columns with printable non-ASCII characters such as accented letters in place names, hence the use of UTF-8.)

Each whitespace character or sequence in cell values in the ADIF Specification is replaced with a single space character. Formatting in the ADIF Specification is ignored.

Enumeration names have spaces replaced by underscores but the original case of the names is preserved, e.g. *ARRL Section* becomes *ARRL_Section*.

The CSV, TSV, Excel™ and Calc files have the same row and column structure. For example, the *Ant_Path* Enumeration at version 3.1.5 is exported as files with the name *enumerations_ant_path.file-type* and content along the following lines (note that the only newlines in the files are end-of-records in the CSV and TSV file types):

Enumeration Name	Abbreviation	Meaning	Import-only	Comments	ADIF Version	ADIF Status
Ant_Path	G	grayline			3.1.5	Released
Ant_Path	O	other			3.1.5	Released

Ant_Path	S	short path			3.1.5	Released
Ant_Path	L	long path			3.1.5	Released

The CSV, TSV, Excel™ and Calc enumerations *file-type* files contents are a concatenation of the individual enumerations *_name.file-type* files. A consequence is that there is one heading row per Enumeration rather than a single heading row / record per file. While the columns vary between the various Enumerations, the first column in the enumerations files is always *Enumeration Name* and that can be used to distinguish between the Enumerations.

IV.B.1. Special Columns

There are generated columns that do not exist in the ADIF Specification as such:

Name	Description	Always Included
Import-only	If the specification indicates somewhere within a table row that the item the row refers to is import-only (deprecated), the value will "true" in XML files and blank in other file types. Otherwise, the value will not be included in XML files and be blank in other file types.	Yes
Comments	Sometimes the table cells with names in (e.g. data type names) contain additional information along the lines of "xxx (import-only; use yyy instead)". In these cases, the text within the parentheses is exported in the "Comments" column.	Yes
ADIF Version	All tables in all file types except for the XML files include this column, which contains the ADIF Specification version (e.g. 3.1.5).	Yes
ADIF Status	All tables in all file types except for the XML files include this column, which contains ADIF Specification status (Draft, Proposed, or Released).	Yes
Minimum Value Maximum Value	The datatypes and fields files include these columns, which contain the minimum and maximum allowed numeric values for the data type or field or are blank. Note that this does not include all numeric types and fields because ADIF does not specify the minimum or maximum allowed values for number types as imposed by data types within programming languages.	
Header Field	Values will be "true" in XML files or "Y" in other file types depending on whether field is a Header Field or a QSO field.	
DXCC Entity Code	All the Primary Administrative Subdivision tables in the Specification are combined and this column is exported to differentiate between them. Similarly, any Secondary Administrative Subdivision tables in the specification are combined and this column is exported to differentiate between them.	
Contained Within	Some of the Primary Administrative Subdivision tables include rows that span all columns in the table and contain the name/details of a locality that encloses the Primary Administrative	

	Subdivisions defined within the following rows. These enclosing names/details are exported in this column.	
Deleted	Any entries within the Primary Administrative Subdivision tables that include the text "for contacts made before" will cause the Deleted column to contain "true" (XML files) or "Deleted" (other file types).	

Only files that include an ADIF Status of "Released" should be used for production purposes; files with status "Draft" or "Proposed" are for testing / review purposes only.

IV.B.2. Enumerations Data File Contents

The Sponsored Award enumeration is not exported because its values are not defined within the ADIF Specification. However, the table of sponsor names is exported with the name "Award_Sponsor".

In the Contest ID enumeration, Contest-ID values are always exported as uppercase, e.g. VIRGINIA QSO PARTY

In the Credit enumeration, the value "EWAS_ SATELLITE" is exported without the embedded space.

In the DXCC Entity Codes enumeration, the first column is exported with the title "Entity Code".

In the Modes enumeration, the Submodes column values are exported without the spaces after commas. E.g. CHIP64,CHIP128

The Propagation enumeration is exported with the name "Propagation_Mode". In line with this, the PROP_MODE field is exported with its Enumeration column set to "Propagation_Mode".

In the QSL_Upload_Status enumeration, the first column title "Via" is exported as the title "Status".

In the CREDIT_SUBMITTED and CREDIT_GRANTED fields, the data type is exported as "CreditList,AwardList", where the first data type in the list (CreditList) is current and the second item in the list (AwardList) is import-only (deprecated).

In the ADIF specification, different Primary Administrative Subdivision enumeration tables have different columns. In the exported files, each enumeration has the full set of columns, even though some tables in the specification don't include all of the columns. The columns concerned are: "Oblast #", "CQ Zone", and "ITU Zone".

IV.B.3. Fields Data File Contents

In the files containing fields, where a field's value is taken from one of a set of enumerations depending on the value of a different field, the enumeration name will be suffixed by '[' followed by the name of the other field followed by ']'. For example, with the STATE field, the specific Primary Administrative Subdivision enumeration depends on the value of the DXCC field, so the enumeration name will be included as:

Primary_Administrative_Subdivision[DXCC]

IV.B.4. Extensible Markup Language Data File Contents

This is an overview of the structure of the all.xml file:

```

<adif>
  <dataTypes>
    <header>
      <value>
        ...
    </header>
    <record>
      <value>
        ...
    </record>
    ...
  </dataTypes>
  <enumerations>
    <enumeration>
      <header>
        <value>
          ...
        </header>
      <record>
        <value>
          ...
        </record>
      ...
    </enumeration>
    ...
  </enumerations>
  <fields>
    <header>
      <value>
        ...
      </header>
    <record>
      <value>
        ...
      </record>
    ...
  </fields>
</adif>

```

All other XML files use the same structure except that they only have a <dataTypes> element, an <enumerations> element, or a <fields> element.

The <adif> document element includes version, status, and created attributes.

<value> elements within a <header> element contain the name of the header as the element contents. <value> elements within a <record> element contain the name of the header as a name attribute and the value as the element contents.

Values are encoded in the same way as in the TSV files with the following exceptions:

- Y (yes) values are encoded as the XML Schema boolean datatype data-type value "true"
<https://www.w3.org/TR/xmlschema-2/#boolean>.

- Date values are encoded as the XML Schema date **datatype data type** UTC value <https://www.w3.org/TR/xmlschema-2/#date>. For example, 2024-12-22Z
- Where a value is blank (zero characters in length), the <value name=...> element will be omitted.

A schema file is supplied, named adifexport.xsd

Here is an example of enumerations_ant_path.xml

```
<?xml version="1.0" encoding="utf-8"?>
<adif version="3.1.5" status="Released" created="2024-12-20T20:12:24Z">
  <enumerations>
    <enumeration name="Ant_Path">
      <header>
        <value>Enumeration Name</value>
        <value>Abbreviation</value>
        <value>Meaning</value>
        <value>Import-only</value>
        <value>Comments</value>
      </header>
      <record>
        <value name="Enumeration Name">Ant_Path</value>
        <value name="Abbreviation">G</value>
        <value name="Meaning">grayline</value>
      </record>
      <record>
        <value name="Enumeration Name">Ant_Path</value>
        <value name="Abbreviation">O</value>
        <value name="Meaning">other</value>
      </record>
      <record>
        <value name="Enumeration Name">Ant_Path</value>
        <value name="Abbreviation">S</value>
        <value name="Meaning">short path</value>
      </record>
      <record>
        <value name="Enumeration Name">Ant_Path</value>
        <value name="Abbreviation">L</value>
        <value name="Meaning">long path</value>
      </record>
    </enumeration>
  </enumerations>
</adif>
```

IV.B.5. Tab-separated Values Data File Contents

Each record ends with a carriage return and line feed character pair.

Tab characters do not appear within cell values, so a row can be split based on tab characters without any issues with escaping.

IV.B.6. Comma-separated Values Data File Contents

Each record ends with a carriage return and line feed character pair.

Values are enclosed by double quotes (") and any double quotes embedded within a value are encoded as a pair of double quotes. For example, if a table cell in the ADIF Specification contains:

This value contains a double quotes " character
this will be the CSV value:
"This value contains a double quotes "" character"

CAUTION: do not open a CSV file in Excel™ or Calc without setting application options to ensure that values are imported as text rather than numbers, dates, or times. This is because the applications may change the cell contents, for example by removing leading zeros from what they mistakenly perceive to be numbers.

Note that this issue does not apply to the Excel™ or Calc files because all cells are exported as text data types.

IV.B.7. Excel™ and Calc Data File Contents

These have a bold font in header rows. Each workbook has one worksheet named as follows:

- "Data Types"
- "Enumerations"
- "*name* Enumeration" truncated to the Excel work sheet name limit of 31 characters.
- "Fields"

where *name* is an enumeration name e.g. "ARRL_Section".

The files include some document and custom properties:

Property	Value
Title	" <i>item</i> exported from <i>status</i> ADIF Specification <i>version</i> " where <ul style="list-style-type: none">• <i>item</i> is "Data Types", "Enumerations", "<i>name</i> Enumeration", or "Fields".• <i>version</i> is the ADIF Specification version, e.g. "3.1.5"• <i>status</i> is the ADIF Specification status of "Draft", "Proposed", or "Released". E.g. "ARRL_Section Enumeration exported from Released ADIF Specification 3.1.5"
Author	"ADIF Development Group"
ADIF Version	ADIF Specification version, e.g. "3.1.5". This is a custom property.
ADIF Status	ADIF Specification status of "Draft", "Proposed", or "Released". This is a custom property.

IV.C. Notes for Developers

IV.C.1 Choosing a File

For copying and pasting table data, the Excel™ files are the best choice.

For accessing programmatically (for example to generate programming language source files, SQL files, data files, or to update databases directly), the tab-separated values files are simplest to deal with

because the records can be split into values solely by specifying a tab character to programming languages' "split" methods / functions.

The Extensible Markup Language (XML) files enable programming by using an object model along with XML Path Language (XPath) expressions or by generating data declaratively using XSL Transformations (XSLT).

IV.C.2. Forwards Compatibility

Future versions of the ADIF Specification may include changes in the structure of the tables such as:

- A change in a column's title.
- A change in the order of columns.
- Addition of columns.
- Removal of columns.

As far as possible, these types of changes will be avoided, but if they do occur, the files' contents will reflect them.

To cater for this, when accessing the files with software, it is recommended that the titles in the header records are used to determine which column is which rather than relying on a column still being the n^{th} "nth" column in future versions of ADIF.

Failing this, it is advisable that applications that assume the n^{th} "nth" column has a particular data item in, check that the header record contains the expected title for that column.

IV.D. Application for Generating Export Files

For reference, the source code for the CreateADIFExportFiles application for Microsoft™ Windows™ used to create the export files is available from GitHub

<https://github.com/g3zod/CreateADIFExportFiles.git>

The application will be updated for each new version of the ADIF Specification.

Note: at the time of writing (2024-10-06), the GitHub link will return a 404 (page not found) response because the repository is still 'private' while undergoing some finalisation.

Ref. <https://groups.io/g/adifdev/message/6828>

Item 070.2: Provide examples of using ADIF Specification exported files

Status: Work in progress

The intention is to include something along the following lines in the ADIF post-version 3.1.5 Resources document:

IV.G. Transforming Exported XML using XSLT

While the CSV and TSV files can be read by software to create programming language source files and SQL statements, using XSLT with the exported XML files provides a very convenient alternative.

The following is an example of using XSLT on the fields XML to create C# string constants:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="text" encoding="UTF-8"/>
```

```

    <xsl:template match="/">
    <xsl:for-each select="adif/fields/record">
const string FIELD_<xsl:value-of select="value[@name]"/> = "<xsl:value-of
select="value[@name]"/>";</xsl:for-each>
    </xsl:template>
</xsl:stylesheet>

```

This is the first part of the output it creates:

```

const string FIELD_ADIF_VER = "ADIF_VER";
const string FIELD_CREATED_TIMESTAMP = "CREATED_TIMESTAMP";
const string FIELD_PROGRAMID = "PROGRAMID";
const string FIELD_PROGRAMVERSION = "PROGRAMVERSION";
const string FIELD_USERDEFn = "USERDEFn";
const string FIELD_ADDRESS = "ADDRESS";
const string FIELD_ADDRESS_INTL = "ADDRESS_INTL";
const string FIELD_AGE = "AGE";
const string FIELD_A_INDEX = "A_INDEX";

```

To select (for example) only the fields that are not header fields, the <xsl:for-each> element's select attribute can be altered to include only the <record> elements that do not have a <value> element with a name attribute set to "Header Field":

```

select="adif/fields/record[not (value[@name='Header Field'])]"

```

The following example shows how an individual C# class could be created for each field:

```

<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="text" encoding="UTF-8"/>
  <xsl:template match="/">
    <xsl:for-each select="adif/fields/record">
public class FIELD_<xsl:value-of select="value[@name]"/>
  {
    public const string name = "<xsl:value-of select="value[@name]"/>";
    public const bool header = <xsl:choose>
      <xsl:when test="value[@name='Header Field']">true</xsl:when>
      <xsl:otherwise>>false</xsl:otherwise>
    </xsl:choose>;
  }
</xsl:for-each>
</xsl:template>
</xsl:stylesheet>

```

Here is the first part of the output:

```

public class FIELD_ADIF_VER
  {
    public const string name = "ADIF_VER";
    public const bool header = true;
  }

public class FIELD_CREATED_TIMESTAMP
  {
    public const string name = "CREATED_TIMESTAMP";
    public const bool header = true;
  }

public class FIELD_PROGRAMID
  {
    public const string name = "PROGRAMID";
    public const bool header = true;
  }

```

```

public class FIELD_PROGRAMVERSION
{
    public const string name = "PROGRAMVERSION";
    public const bool header = true;
}

public class FIELD_USERDEFn
{
    public const string name = "USERDEFn";
    public const bool header = true;
}

public class FIELD_ADDRESS
{
    public const string name = "ADDRESS";
    public const bool header = false;
}

```

Here is XSLT that will create equivalent SQL INSERT statements for the fields:

```

<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="text" encoding="UTF-8"/>
  <xsl:template match="/">
    <xsl:for-each select="adif/fields/record">
      INSERT fields (fieldname, header) VALUES ('<xsl:value-of select="value[@name]"/>',
<xsl:choose>
        <xsl:when test="value[@name='Header Field']">1</xsl:when>
        <xsl:otherwise>0</xsl:otherwise>
      </xsl:choose>)</xsl:for-each>
    </xsl:template>
  </xsl:stylesheet>

```

Here is the first part of the output:

```

INSERT fields (fieldname, header) VALUES ('ADIF_VER', 1)
INSERT fields (fieldname, header) VALUES ('CREATED_TIMESTAMP', 1)
INSERT fields (fieldname, header) VALUES ('PROGRAMID', 1)
INSERT fields (fieldname, header) VALUES ('PROGRAMVERSION', 1)
INSERT fields (fieldname, header) VALUES ('USERDEFn', 1)
INSERT fields (fieldname, header) VALUES ('ADDRESS', 0)
INSERT fields (fieldname, header) VALUES ('ADDRESS_INTL', 0)
INSERT fields (fieldname, header) VALUES ('AGE', 0)
INSERT fields (fieldname, header) VALUES ('A_INDEX', 0)

```

Finally, here is a slightly more realistic (and lengthier!) example that converts the Modes enumeration into instances of a C# class:

```

<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="text" encoding="UTF-8"/>
  <xsl:template match="/">using System;
using System.Collections.Generic;
using System.Windows.Forms;

namespace Adif
{
    public class AdifMode
    {
        private string name;
        private string[] submodes;
        private bool importOnly;
        private string description;

```



```

        public string Name
        {
            get { return name; }
        }

        public string[] Submodes
        {
            get { return submodes; }
        }

        public bool ImportOnly
        {
            get { return importOnly; }
        }

        public string Description
        {
            get { return description; }
        }

        public AdifMode(
            string name,
            string submodes,
            bool importOnly,
            string description)
        {
            this.name = name;
            this.submodes = submodes.Split(new char[] { ',' },
StringSplitOptions.RemoveEmptyEntries);
            this.importOnly = importOnly;
            this.description = description;

            AdifModes.Add(name, this);
        }

        public static Dictionary<string, AdifMode> AdifModes = new
Dictionary<string, AdifMode>();

        public static void Initialize()
        {
            MessageBox.Show("ARDOP is " + AdifModes["ARDOP"].Description);
            MessageBox.Show("CHIP has " +
AdifModes["CHIP"].Submodes.Length.ToString() + " submodes");
            MessageBox.Show("CLO is " + (AdifModes["CLO"].ImportOnly? "" : "not") + "
import-only");
        }
    }
}
</xsl:template>
</xsl:stylesheet>

```

Here's a cut-down version of the output:

```

using System;
using System.Collections.Generic;
using System.Windows.Forms;

namespace Adif
{
    public class AdifMode
    {
        private string name;
        private string[] submodes;
        private bool importOnly;
        private string description;

        public string Name

```

```

        {
            get { return name; }
        }

        public string[] Submodes
        {
            get { return submodes; }
        }

        public bool ImportOnly
        {
            get { return importOnly; }
        }

        public string Description
        {
            get { return description; }
        }

        public AdifMode(
            string name,
            string submodes,
            bool importOnly,
            string description)
        {
            this.name = name;
            this.submodes = submodes.Split(new char[] { ',' },
StringSplitOptions.RemoveEmptyEntries);
            this.importOnly = importOnly;
            this.description = description;

            AdifModes.Add(name, this);
        }

        public static Dictionary<string, AdifMode> AdifModes = new Dictionary<string,
AdifMode>();

        public static void Initialize()
        {
            new AdifMode("AM", "", false, "");
            new AdifMode("ARDOP", "", false, "Amateur Radio Digital Open Protocol");
            new AdifMode("ATV", "", false, "");
            new AdifMode("CHIP", "CHIP64,CHIP128", false, "");
            new AdifMode("CLO", "", false, "");
            new AdifMode("CONTESTI", "", false, "");
            new AdifMode("CW", "PCW", false, "");
            new AdifMode("DIGITALVOICE", "", false, "");
            new AdifMode("DOMINO", "DOMINOEX,DOMINOF", false, "");
            // etc. etc.

            MessageBox.Show("ARDOP is " + AdifModes["ARDOP"].Description);
            MessageBox.Show("CHIP has " +
AdifModes["CHIP"].Submodes.Length.ToString() + " submodes");
            MessageBox.Show("CLO is " + (AdifModes["CLO"].ImportReadOnly ? "" :
"not") + " import-only");
        }
    }
}

```

When the Intialize method is run, three message boxes will be displayed showing the following:

```

ARDOP is Amateur Radio Digital Open Protocol
CHIP has 2 submodes
CLO is not import-only

```

The following is more appropriate for the export program's documentation:

IV.G. Implementation

Generation of the exported files exploits some meta data included in ADIF Specifications from version 3.0.6 onwards:

- A <meta> tag with the name "adifversion" and content of the ADIF version (e.g. "3.0.6").
- A <meta> tag with the name "adifstatus" and content of "Draft", "Proposed", or "Released".
- The data types table has an id attribute of "Data Types".
- The Primary Administrative Subdivision enumeration tables have an id attribute of "Enumeration_Primary_Administrative_Subdivision_{DXCC}" where {DXCC} is the DXCC entity code, e.g. for Canada the id is "Enumeration_Primary_Administrative_Subdivision_1"
- All other enumeration tables have an id attribute of "Enumeration_{name}" where {name} is the enumeration's name with spaces replaced by underscores, e.g. "Enumeration_Ant_Path"
- The fields tables have ID attributes of "Field_Header" and "Field_QSO".
- Data types and fields that have greater than or minimum, and / or maximum values specified in their descriptions have the values surrounded by tags with the title attribute set to "GreaterThan", "Minimum", or "Maximum" e.g. 99999999
GreaterThan is used where the text in the Specification feels more natural using it rather than a Minimum value. The GreaterThan value must be an integer and is converted to a Minimum value by adding 1. "GreaterThan" is not currently used with values containing a decimal point; "Minimum" can be used instead.

Ref. <https://groups.io/g/adifdev/message/6828>

Item 065: Add a list of US Counties

Status: Work in progress

Update 2024-07-16: No consensus was reached on this proposal for several reasons (although arguably the first item below is the main obstacle):

- At the time the proposal was raised, the Counties Award sponsor did not provide an electronic list of counties (and an attempt to obtain a paper one by making a payment was declined due to long-term unavailability).
- The publicly-available FIPS 6-4 document ceased to be provided in 2002.
- When this topic was last looked at, the replacement for FIPS 6-4 was an ANSI document that had to be paid for, making it an undesirable resource for amateur radio.
- There is a Wikipedia list but Wikipedia is usually not considered as an authoritative reference for ADIF: https://en.wikipedia.org/wiki/List_of_United_States_counties_and_county_equivalents
- Adding a list to ADIF would result in problems mapping whatever county names are currently in use in ADIF into the proposed ADIF list.

Ref.

Item 062.2: Update Primary Administrative Subdivision for Country Code 224 (Finland)

Status: Ready for inclusion

Update the table for Enumeration for Country Code 224 (Finland) adding a new column *Deleted* and the data provided in:

https://groups.io/g/adifdev/files/Enumeration_for_country_code_224_%28Finland%29_2017-03-16.csv
https://groups.io/g/adifdev/files/Enumeration_for_country_code_5_%28Aland_Is.%29_2017-03-16.csv

Ref. <https://groups.io/g/adifdev/message/6764>
<https://www.sral.fi/sv/hobbyn/infobanken/kommunforteckning/>

Item 058: Remove FIPS 6-4 US County Link

Status: Work in progress

In "III.B.12 Secondary Administrative Subdivision Enumeration", the "FIPS 6-4" link is broken because FIPS 6-4 has been replaced by INCITS 38-2009[R2014] which has to be purchased from ANSI for \$38 :
https://standards.incits.org/apps/group_public/project/details.php?project_id=206.

I propose that the link is removed altogether and footnotes be added underneath the table:

"Alternative lists of US Counties:

[1] "2010 FIPS Codes for Counties and County Equivalent Entities"

<https://www.census.gov/geo/reference/codes/cou.html> provides lists of Counties by

State. Subsequent changes are documented in "Substantial Changes to Counties and County

Equivalent Entities: 1970-Present" <https://www.census.gov/geo/reference/county-changes.html>

[2] "INCITS 31-2009[R2014]: Information technology - Codes for the Identification of Counties and Equivalent Areas of the United States, Puerto Rico, and the Insular Areas"

https://standards.incits.org/apps/group_public/project/details.php?project_id=204 is available for purchase from ANSI <http://webstore.ansi.org> "

Sponsors: G3ZOD, AA6YQ

Ref. <https://groups.yahoo.com/neo/groups/adifdev/conversations/messages/6727>